



# CEWELD ER 90 S-G (P92) Tig

TYPE	Medium alloyed, high-strength creep resistant 9% Chromium alloy.																													
TOEPASSINGEN	TIG/GTAW wire for high temperature, creep resistant, modified 9%Cr1%Mo martensitic steel (T92/P92). Alloy T92/P92 is widely used in the power generating industry for fossil fuel ultra-super-critical (USC) power plant boilers and turbines; the alloy is also finding applications in the chemical and oil and gas industries.																													
EIGENSCHAPPEN	T92/P92 steel is commonly used at service temperatures up to 620°C. V, Nb and N additions provide this 'creep strength enhanced ferritic' (CSEF) alloy with improved high temperature creep resistance compared to standard CrMo creep resistant alloys.																													
CLASSIFICATIE	AWS	A 5.28: ER 90S-G																												
	EN ISO	21952-A: W ZCrMoWVNb 9 0,5 1,5																												
	F-nr	6																												
	FM	4																												
GESCHIKT VOOR	<b>P92: 9%Cr1.7%W0.5%Mo,</b> 1.4901 X10CrWMoVNb 9 2 ASTM A213 Gr. T 92; A355 Gr. P92; A187 F92, A369 FP92; A1017 Gr 92 KA-STBA29; KA-STPA29 NF 616																													
GOEDKEURINGEN	CE																													
LASPOSITIES																														
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>W</th> <th>Nb</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.35</td> <td>0.5</td> <td>0.008</td> <td>0.008</td> <td>9.1</td> <td>0.5</td> <td>0.8</td> <td>1.6</td> <td>0.05</td> </tr> </tbody> </table>										C	Si	Mn	P	S	Cr	Ni	Mo	W	Nb	0.1	0.35	0.5	0.008	0.008	9.1	0.5	0.8	1.6	0.05
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MECHANISCHE WAARDEN	Heat Treatment		R <sub>P0,2</sub> (MPa)		R <sub>m</sub> (MPa)		A <sub>5</sub> (%)		Hardness																					
	730°C- 760°C 3h		550		630		17		HRc																					
HERDROGEN	Not required																													
GAS ACC. EN ISO 14175	I1																													